



- **HIGH-SPEED, COMPACT, INTEGRATED COMPUTER PRINTING SYSTEM**
... \$12,430

- **MATES DIRECTLY WITH —**
PDP8
SDS92
DDP116
H20
DATA 620

FOR EITHER PROGRAMMED TRANSFER (READY MODE) OR PROGRAM INTERRUPT TRANSFER (INTERRUPT MODE) OPERATION



COMPUTER INTERFACED PONY PRINTER

INTRODUCTION

Now the small to medium size computer user can have an integrated high-speed printing system at a reasonable price. This new Computer Interfaced Pony Printer bridges the gap between today's prohibitively expensive high-speed, full-page printers costing, in most cases, more than the computers they interface to and the low-speed teleprinters which hardly keep up with normal computer output requirements. This system is 60 times faster than a teleprinter; it has equivalent half page formatting at 32 columns of numeric or alphanumeric print-out; and is completely compatible, both electrically and logically, with a wide variety of today's small, scientific data processing computers (the only thing needed is a connecting cable).

FEATURES

ECONOMY

The initial cost of this completely computer-integrated data logger is undisputably low — far less than half the price of full page printers of comparable speed. And, the initial investment is repaid many times in lower operating and maintenance cost. An exclusive inking roller, which has ten times the inking capacity of a ribbon, will save

\$.50 to \$.75 per operating hour over troublesome ribbons. This savings alone will pay for maintenance of the machine and will eventually pay off its initial cost.

RELIABILITY

A highly reliable mechanical system is guaranteed by a through-hardened steel print drum supported at both ends, a printing mechanism with only two moving parts per column and elimination of ribbon drive and reversing mechanism. The low-mass printing element has undergone — without failure — over 100,000,000 firings, and, as this element is softer than the type drum, the type drum should never wear out. The associated all-silicon circuits have an average calculated MTBF of 3500 hours (MIL-HBK-217).

LOW MAINTENANCE

Modular construction has been used throughout to simplify maintenance or replacement of parts. Printing elements are self-cleaning. Electronic adjustment of the vertical alignment reduces the time for the most complex adjustment to less than five minutes. The entire mechanical printer can be opened while operating so the entire machine, including the hammer modules, is exposed and accessible.



PONY PRINTER



DI/AN CONTROLS, INC.

944 Dorchester Avenue
Boston, Mass. 02125

Phone: (617) 288-7700

TWX: 710-333-0174

PRINT QUALITY

The combination of features designed into the Pony Printer gives its printout exceptionally clear definition and registration even at maximum speeds. Copy is always readable even by commercial optical readers. This print quality is the result of a simplified design that has evolved from years of high-speed printer development experience.

EASE OF PROGRAMMING

The printer interface has been custom-designed to operate with any of the following four low-priced

digital computers: PDP-8, DDP-116, SDS 92, H20. Data transfer can be implemented in either the Ready mode or the Interrupt mode. In the Ready mode, the printer sets the Ready line when it is ready to accept the next line for printing. The program continuously tests the Ready line, and transfers the line image a character at a time to the printer buffer when the Ready line becomes set. In the interrupt mode, the computer program is interrupted when the Ready line becomes set. The program then transfers the line image to the printer buffer. The printer will accommodate the fastest transfer rates that the implemented computers can provide.

PERFORMANCE SPECIFICATIONS

Printing Speeds

Numeric 1280 characters/sec
Alphanumeric 640 characters/sec

Line Speeds

Numeric 2400 lines/min
Alphanumeric 1200 lines/min

Column Capacity 32 columns

Print Spacing

Column 10 columns per inch
Line 6 lines per inch

Inking Long-life self-supplied inking roller

Paper, Fan-folded 1000 sheets of 3 $\frac{3}{4}$ " x 8 $\frac{1}{2}$ " paper

Power 115/230 VAC, 47 to 63 cps.

Number of Characters

Numeric: 16 characters at 40 lps,
(0 thru 9 . - + * ~ blank)
asynchronous operation
Alphanumeric: 48 characters at 20 lps
(A thru Z, 0 thru 9 . - + * ~ ? # ; comma
apostrophe, blank)

Manual Controls

Off power off
Standby power on but not printing
(lamp indicator)
Operate for printing on-line (lamp indicator)

Paper Advance Advances paper without printing
Alarm paper out (lamp indicator)

PHYSICAL SPECIFICATIONS

A table mounted cabinet containing the main frame is mounted on a console which accommodates the power supply and computer interface electronics. The total system measures 42 inches high, 21 $\frac{1}{2}$ inches wide, and 24 inches deep. Interconnecting cable sets are not included with the system.

ORDERING INFORMATION

A	—	()	—	63 (PDP-8)	—	R
a		b		c		d	e

a Type drum:

A — Alphanumeric
N — Numeric

b Data Code: (please specify)

c Service Address Code (octal 63 unless otherwise specified by customer)

d Interface to Computer Model.

e Mode of Data Transfer:

R — Ready
I — Interrupt



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